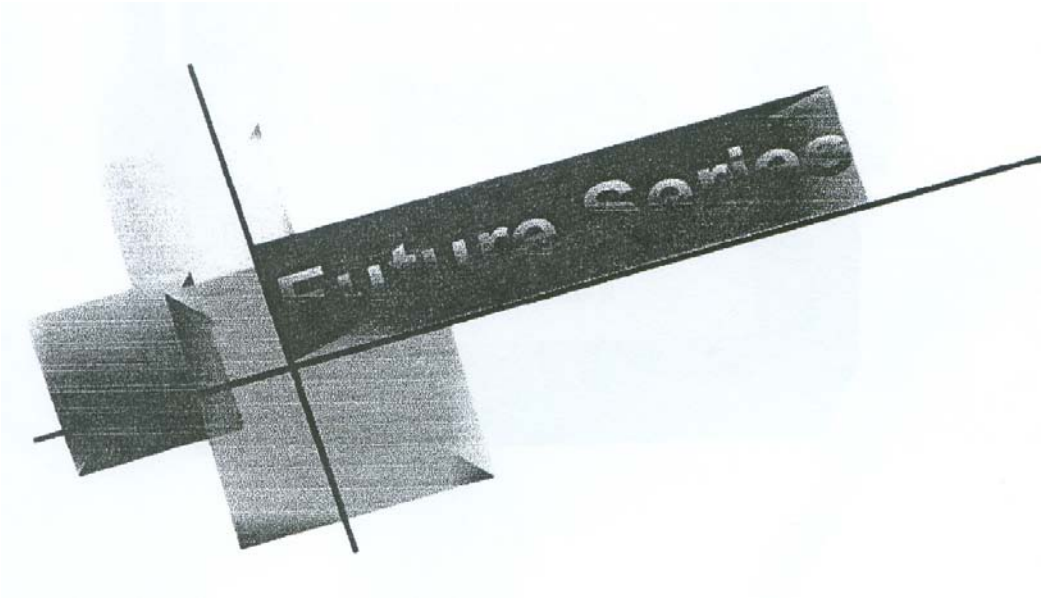
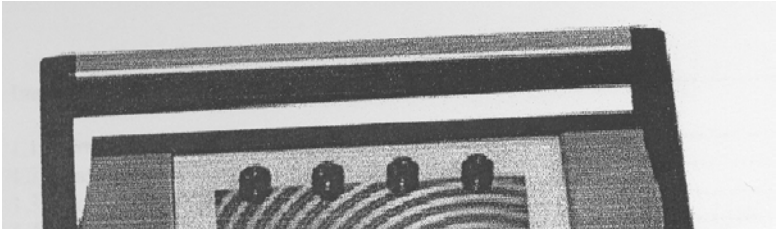
WATER FINDER

USER'S MANUAL





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1. IMPORTANT NOTES

Please read these operating instructions carefully and closely before using the Waterfinder and its accessories. These instructions give information on how to use the device. They also point out potential sources of danger.

No warranty is made and no responsibility is taken for any damage resulting from a failure to observe and operating instructions or from improper usage!

Any claims under guarantee will become null and void if repairs or work are performed by persons who have not been authorized by us to do so or if supplementary or accessory parts are added to our devices which have not been matched for them. The Waterfinder will get destroyed if the device is opened improperly.

Avoid strong magnetic fields, which may occur in places such as near machines or loudspeakers, and avoid using a detector within a radius of 50 meters.

The Waterfinder serve to detect water in the ground. This water parts under the soil are registered using the modules which have been supplied or which are additionally available.

The measure results are shown immediately on the display.

Please note that the device may or will not give an accurate reading or result when operated on soil that is highly mineralized. Example of that soil could be contaminated soils, wastelands, or soil with naturally high concentrations of minerals.

That inaccuracy occurs as a result of the disruption of electromagnetic fields emitting from the Waterfinder during testing, that is normal in the case of all devices operate with electromagnetic fields. Also a land that has high power voltage towers and cable lines running through it may not be a favorable land for testing.

1.1. General Notes

Being an electronic device, the Waterfinder must be treated with the caution and care necessary when such devices are used. Any failure to observe the safety precautions given or any use for purposes other than the ones it is conceived for may result in a damage to or destruction of the processing unit and connected components.

1.2. Possible Health Hazards

The Waterfinder normally does not pose any health hazards if used properly. According to current scientific knowledge, the high-frequency signals are not harmful to the human body on account of their low power. As an electric device, the Waterfinder must be kept away from children!

1.3. Surrounding Area

Having been transferred from a cold a warmer place, the Waterfinder must not be operated immediately afterwards. Any condensation, which may not formed, might cause the device to get destroyed. Avoid strong magnetic fields, which may occur in places such as near machines or loudspeakers, and avoid using a detector within a radius of 50 meters.

1.4. Voltage

The power supply should not be outside 9-12 volts. Only use batteries and rechargeable batteries!

Never use the 230 Volt mains supply!

1.5. Data Safety

There can be errors in the process of data collection if

- The power supply of the device is to low.
- The cables you are using are to long.
- Other electronic devices sends out troubles.
- Atmospherics(lighting….)occurs.

1.6. Warranty

Please contact your dealers if the Waterfinder is in need of repair or in case of inquiries or problems. A qualified technician will examine the problem and initiate any repair work necessary.

This service is free of charge within the regular warranty period of two years. After the expiration of the warranty period, you will receive an estimate of repair costs.

The label stickers on each side of the device are warranty seals, and indicate that the device has not been opened. Any break, removal or damage to that seal terminates the factory warranty agreement.

2. TECHNICAL SPECIFICATIONS

The following technical specifications are medial values and can differ. During usage minor variances are possible.

Dimensions (H x W x D):	: 250 mm x 220 mm x 70 mm
Weight	: 3kg
Power supply	: 12 V internal or external
Processor	: 4 MHZ
Waterproof	: No
Maximum Operational humidity	: 85%
Operating temperature (unit)	: -20 ºC …..+65 ºC
Battery Run Time	: 5-6 Hours
Charging Time	: 8-12 Hours
Length of electrodes cable	: 20 m
Maximum penetration	: 260 m

3. SCOPE OF DELIVERY

If you bought your device from one of our dealers the scope of delivery can be different in some circumstances. For questions about this please contact your local dealer!

Beware that picture in this manual could be different to delivered parts.

1. Measure Unit (Waterfinder)
2. Electrodes (4) with 20 m cable.
3. Charger for internal battery
4. User's manual
5. Carrying case.

4. INFORMATION ABOUT WATERFINDER

The measure instrument Waterfinder is specialized to find water in the soil. The measured values are shown immediately on the device. The detected water part will be shown on the display in percentage relative to the measure area.

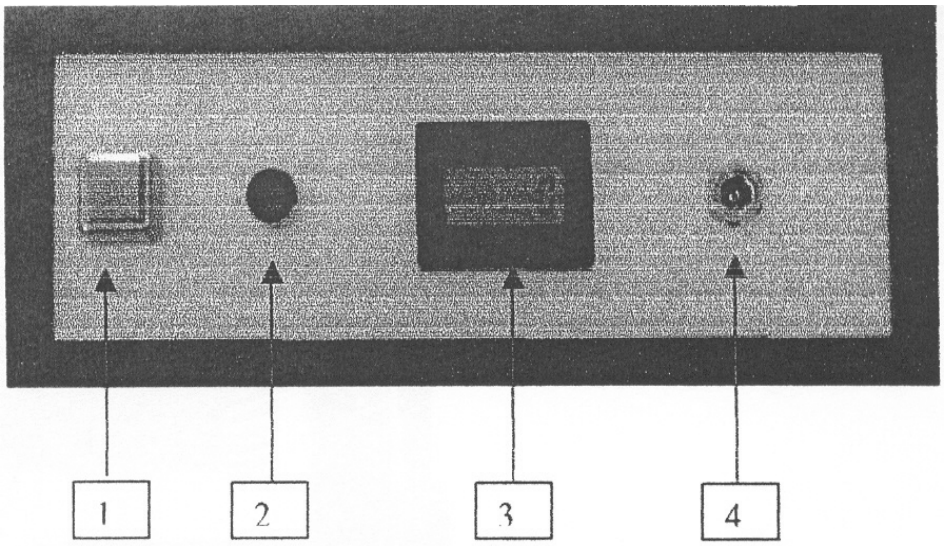
With good conditions the measure depth can be up to 260 meters.

- ✓ Deep measurement
- ✓ Power supply = 12 Volts.

The Waterfinder is based on a geo-electric procedure to select water in a destination area. The device is easy to use and only create to detect water. The evaluation of the results will be shown immediately at place on the display.

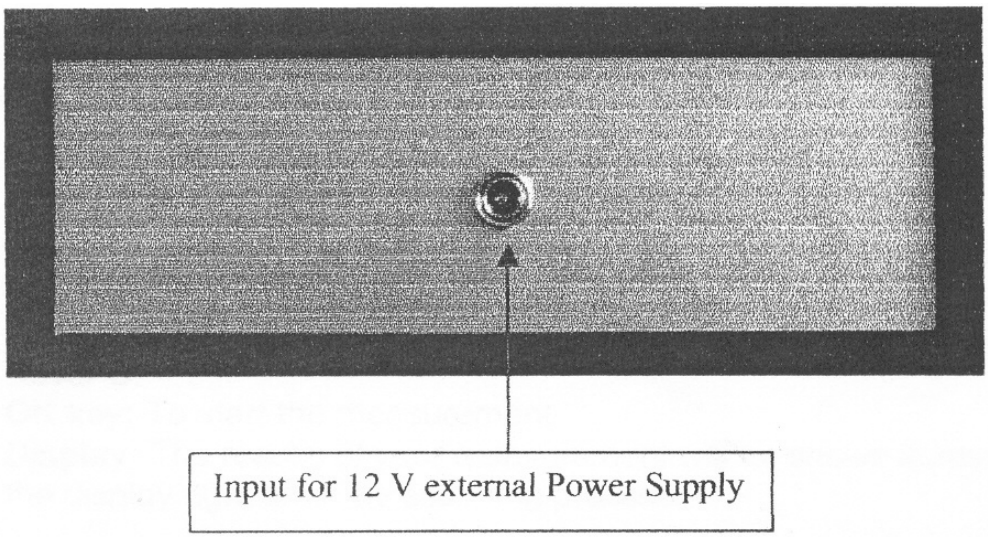
5. THE WATERFINDER IN GENERAL

Front

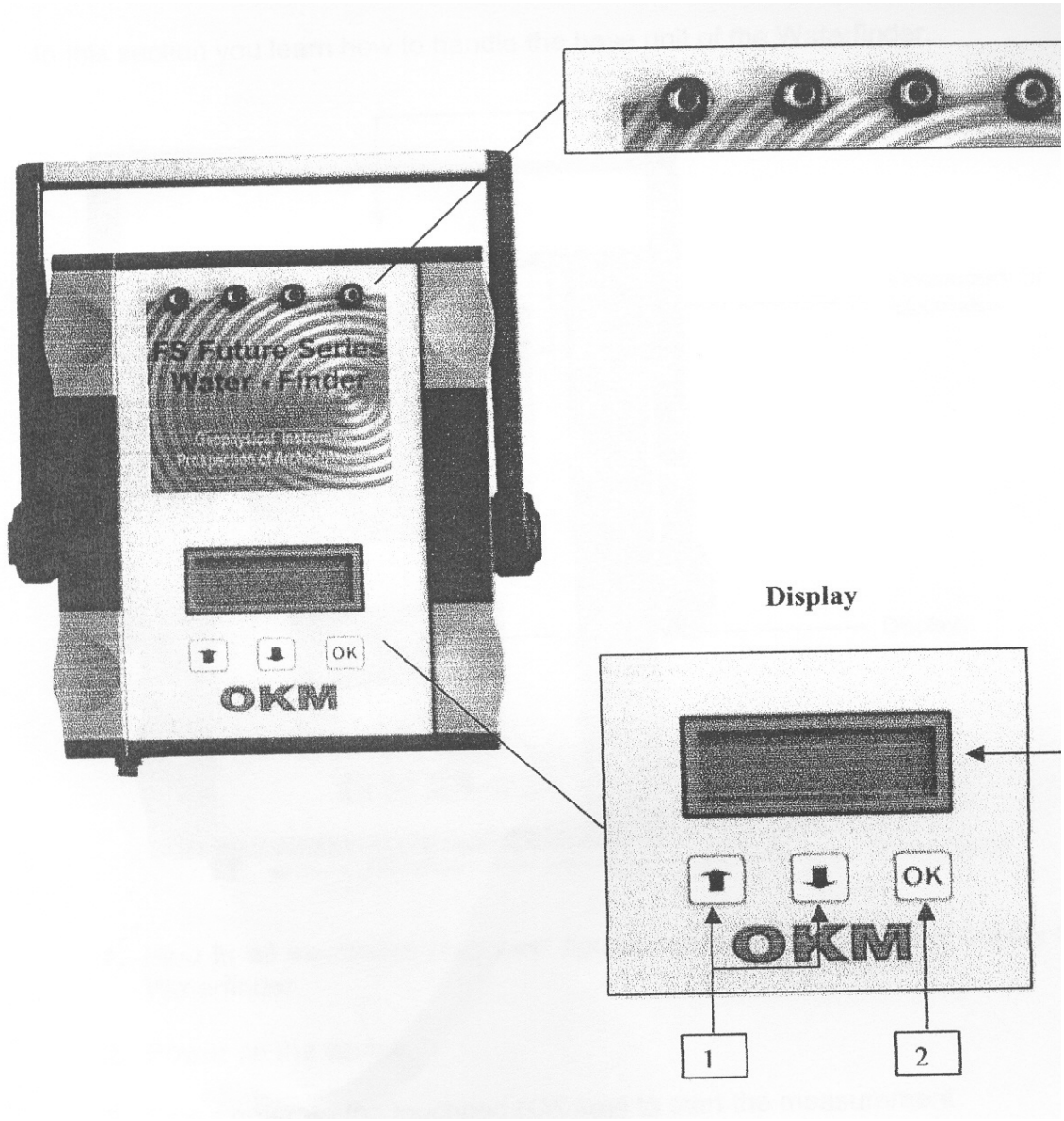


1. Power On/Off button
2. Operational status Indicator
3. Counter: The counter on the front side is for repair and maintenance purpose to see how often the switching on mechanism of the device is been used.
4. Load internal battery.

Back



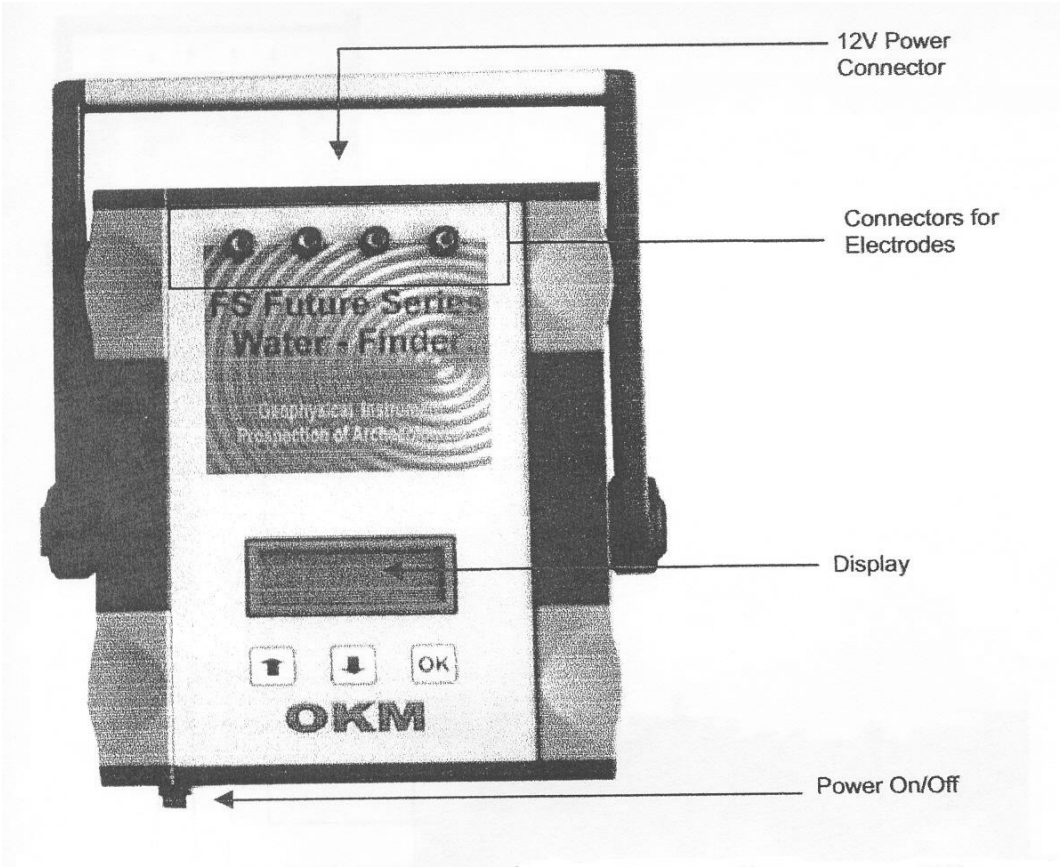
Connection electrodes



1. **The arrow keys:** The arrow keys do not have a specified function or use in the case of measurements with Waterfinders, however, they do have functions in the cases of other instruments made by OKM, for example the Rover C.
2. **OK Key:** To start the measurement
3. **Display:** The results of your measurement will be shown immediately on the display right after the scanning process.

6. HOW TO USE THE WATER FINDER

In this section you learn how to handle the base unit of the Waterfinder.



1. Plug in all electrodes (see next figure) and connect the power supply to the Waterfinder.

2. Power on the device.

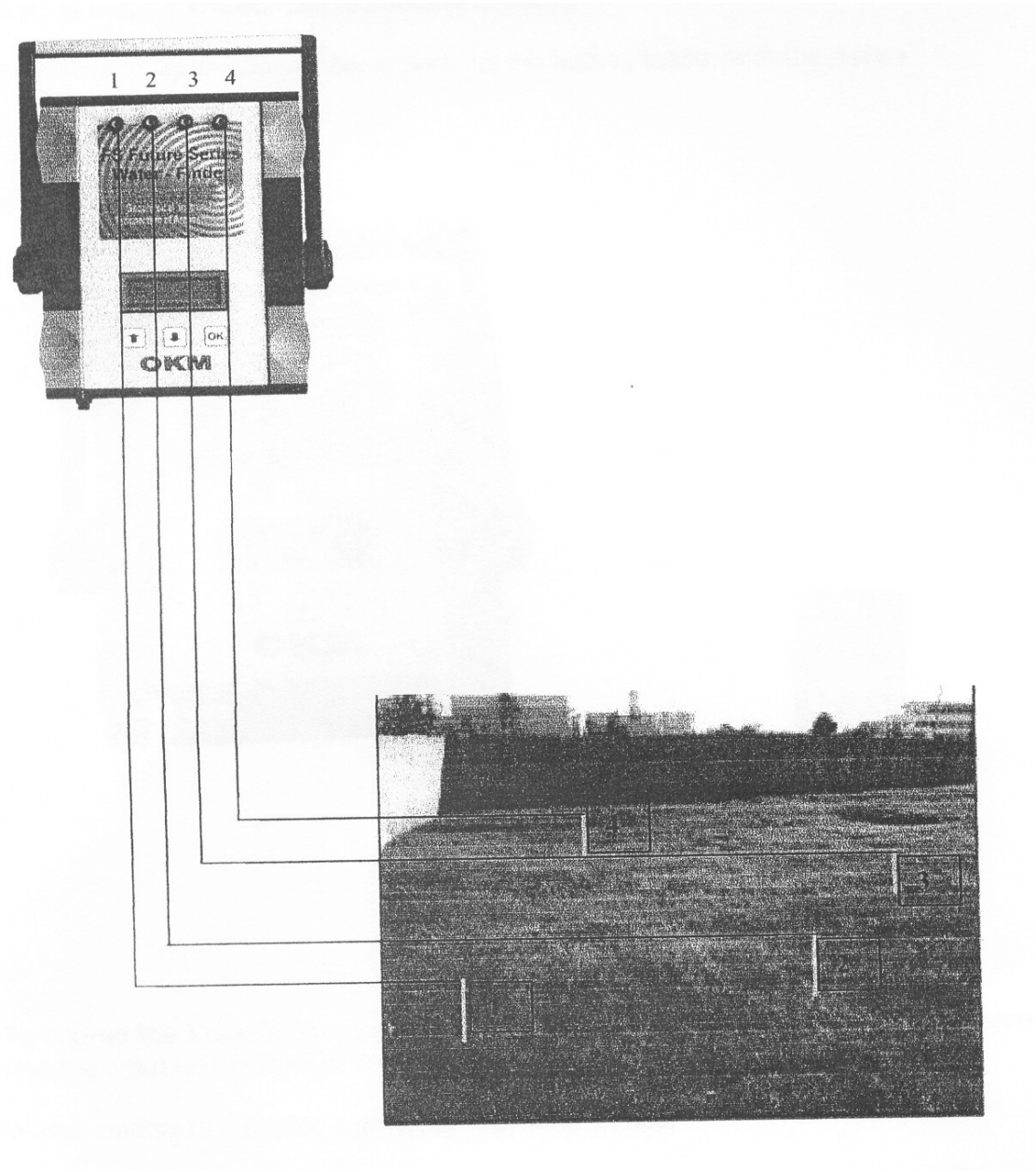
3. Press enter on the touchpad (OK key) to start the measurement.

4. After the measurement is done you can read the result in the display (eg.40%).

5. The more the percentage result of the scanning it means a higher concentration of water in the tested soil area.

6. When you start testing the soil start with the wide area and get the overall result for it, then divide that area into four parts and start testing each part separately to determine which area has the highest percentage and concentration and so on.

7. HOW TO PLUG IN THE ELECTRODES



The electrodes have to be plugged in always in the same way, counter clockwise (see figure).

8. HOW TO LOAD THE WATERFINDER

Loading time for Waterfinder is about 8-12 hours.

The following figure shows how to connect the battery loader with the device.

To charge the Waterfinder you have to connect the battery charger with the device. Use the input on the front of the device.

During loading the device, a green control lamp shines.

Important: Only if this green lamp stops shining than the device is charged fully.

Please do not overcharge the battery; as a result it may not work properly over the time.
System: electric geologist
Depth: 260 meters
Range: 200 meters
Price: 4800 $